

INTERNATIONAL SEARCH REPORT

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ication No

PCT/EP2004/009580

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 F01K23/06 F02G5/02 F01K23/10 F02C6/18

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 F01K F02G F02C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2002/047267 A1 (BATSCHA DANNY ET AL) 25 April 2002 (2002-04-25) paragraphs [0022], [0023]; figure 6 -----	1,12,23, 25
X	EP 1 249 580 A (HONDA MOTOR CO LTD) 16 October 2002 (2002-10-16) paragraphs [0005], [0007], [0047], [0048]; figure 2 -----	1,2,11, 28,30
X	US 3 234 735 A (SAGE WARNIE L ET AL) 15 February 1966 (1966-02-15) column 2, line 53 - column 3, line 44; figure 1 -----	1-4,13, 14,16,21
X	EP 0 098 481 A (BBC BROWN BOVERI & CIE) 18 January 1984 (1984-01-18) page 2, line 30 - page 3, line 25; figure 1 -----	1-4
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Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- "&" document member of the same patent family

Date of the actual completion of the international search

24 November 2004

Date of mailing of the international search report

14.04.2005

Name and mailing address of the ISA

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INTERNATIONAL SEARCH REPORT

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Application No

PCT/EP2004/009580

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 98/25019 A (AUSTRIAN ENERGY & ENVIRONMENT ; FERCHER ERICH (AT); BRAENDLE BERND (AT) 11 June 1998 (1998-06-11) page 3, line 8 - page 4, line 22; figure 1 -----	1-4
X	EP 1 016 775 A (ORMAT IND LTD) 5 July 2000 (2000-07-05) paragraph [0007]; figure 1 -----	1
X	US 4 468 923 A (JORZYK SIGURD ET AL) 4 September 1984 (1984-09-04) column 1, line 31 - column 2, line 25; figure 1 -----	1

INTERNATIONAL SEARCH REPORT

International application No.
PCT/EP2004/009580

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-33, 88-100

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-33,88-100

An energy recovery system comprising a first heat exchanger, an expansion unit, an electromechanical conversion unit and a cooling system

2. claims: 34-50

A radial inflow turbine unit comprising a housing, a shaft, a turbine comprising a first and a second stage.

3. claims: 51-68

A bearing for supporting a shaft comprising a bearing member.

4. claims: 69-87

A rotary magnetic coupling comprising a first and a second rotary member.

5. claims: 101-111

A working fluid purification system comprising an expansion tank, a diaphragm and a control valve

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 2002047267	A1	25-04-2002	BR 0102935 A CA 2353152 A1 CN 1335451 A EP 1174590 A2	05-03-2002 17-01-2002 13-02-2002 23-01-2002
EP 1249580	A	16-10-2002	JP 2001271609 A EP 1249580 A1 US 2003106316 A1 WO 0153661 A1	05-10-2001 16-10-2002 12-06-2003 26-07-2001
US 3234735	A	15-02-1966	NONE	
EP 0098481	A	18-01-1984	DE 3225140 A1 AT 29762 T EP 0098481 A2	12-01-1984 15-10-1987 18-01-1984
WO 9825019	A	11-06-1998	WO 9825019 A1 AU 5109998 A	11-06-1998 29-06-1998
EP 1016775	A	05-07-2000	US 6571548 B1 AU 760676 B2 AU 6547099 A CA 2292488 A1 EP 1016775 A2 RU 2215165 C2	03-06-2003 22-05-2003 06-07-2000 30-06-2000 05-07-2000 27-10-2003
US 4468923	A	04-09-1984	DE 2743830 A1 AU 520195 B2 AU 4030578 A BE 32 T1 BR 7806429 A CA 1120800 A1 EP 0001569 A1 FR 2455165 A1 GB 2041454 A ,B NL 7815034 A ,B ZA 7805504 A	19-04-1979 21-01-1982 03-04-1980 22-02-1980 08-05-1979 30-03-1982 02-05-1979 21-11-1980 10-09-1980 28-12-1979 26-09-1979